

Figure 1

INVENTOR

Nohn & Frita

W.

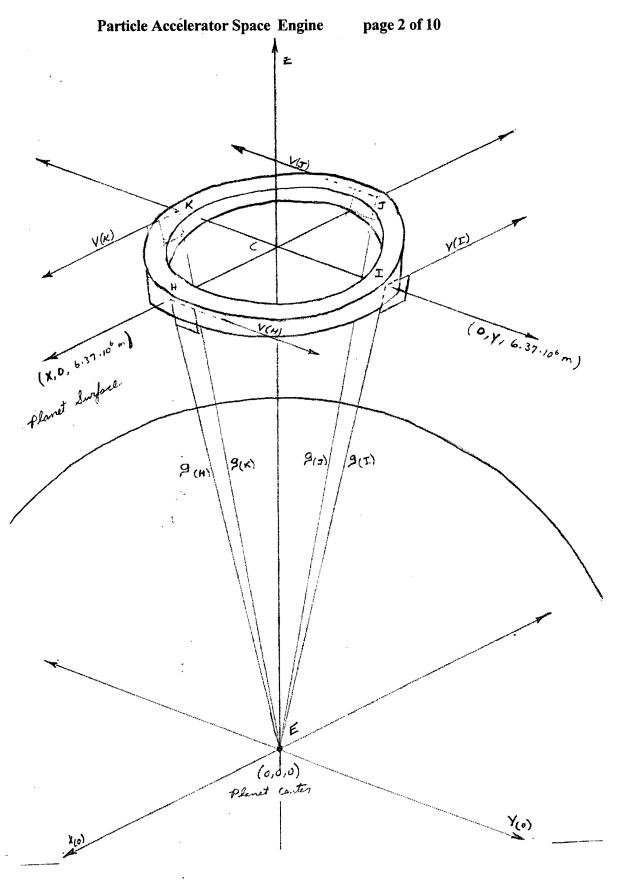


Figure 2

INVENTOR Lohn & Foster

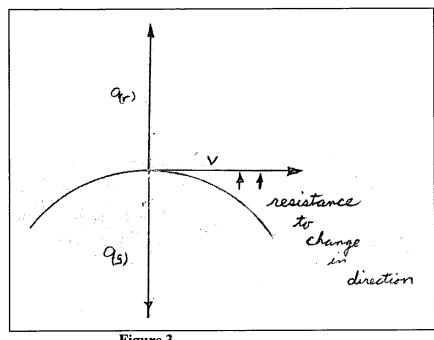


Figure 3

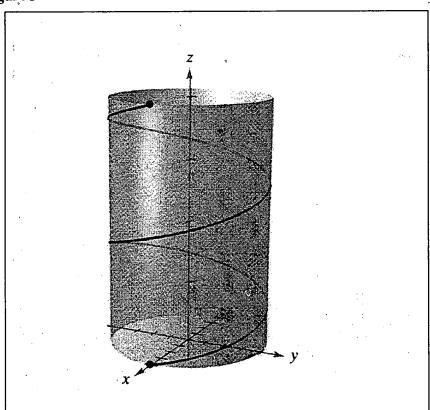


Figure 4

Inventor
Lohn P Tostes

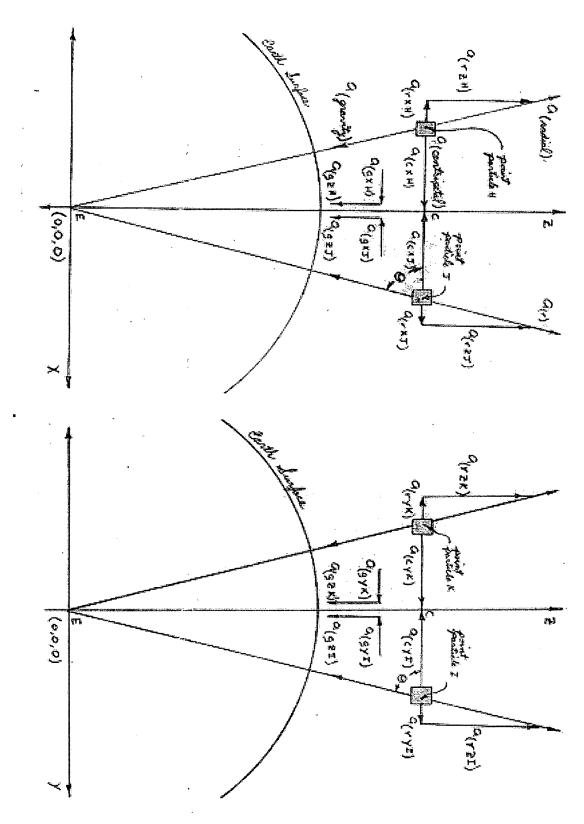


Figure 6

INVENTOR
Sohn o Foster

```
F_{(C)} = F_{(H)} + F_{(J)} + F_{(J)} + F_{(K)}
```

On the x,z plane

$$\begin{split} F_{(H)} &= \frac{1}{4m} x \ a_{(H)} = \frac{1}{4m} x \left[a_{(rxH)} \ i + a_{(rzH)} k + a_{(cxH)} \ i + a_{(czH)} k + a_{(gzH)} k + a_{(gzH)} k \right] \\ F_{(I)} &= \frac{1}{4m} x \ a_{(I)} = \frac{1}{4m} x \left[a_{(rxJ)} \ i + a_{(rzJ)} k + a_{(cxJ)} \ i + a_{(czJ)} k \right] \\ On the y,z plane \end{split}$$

$$\begin{split} F_{(I)} &= \frac{1}{4}m \ x \ a_{(I)} \ = \frac{1}{4}m \ x \left[a_{(ryI)} j + a_{(rzI)} k + a_{(cyI)} j + a_{(czI)} k + a_{(gzI)} k \right] + a_{(gzI)} k \\ F_{(K)} &= \frac{1}{4}m \ x \ a_{(K)} = \frac{1}{4}m \ x \left[a_{(ryK)} j + a_{(rzK)} k + a_{(cyK)} j + a_{(czK)} k + a_{(gzK)} j + a_{(gzK)} k \right] \end{split}$$

Expand the equations and sum, such that component parts equal radial acceleration = $v^2/r_{earth+alt} \times (ratio of sides)$

Centripetal acceleration = v^2/r_{ring} x (ratio of sides) Gravity acceleration = (a_g) x (ratio of sides)

$$\begin{split} F_{(H)} &= {}^{1/4}m\left[v^{2}/_{EH}(CH/EH)i \right. + v^{2}/_{EH}(EC/EH) \\ & \left. k + v^{2}/_{CH}(HC/HC) \right. i + 0 \\ & \left. k + (a_g)_{HE}(HC/HE) \right. i + (a_g)_{HE}(CE/HE) k \right] \\ F_{(J)} &= {}^{1/4}m\left[v^{2}/_{EI}(CJ/EJ) \right. i + v^{2}/_{EJ}(EC/EJ) k \\ & \left. k + v^{2}/_{CJ}(JC/CJ) \right. i + 0 \\ & \left. k + (a_g)_{JE}(JC/JE) \right. i + (a_g)_{JE}(CE/JE) k \right] \\ F_{(H)} &= {}^{1/4}m\left[v^{2}/_{EK}(CK/EK) \right. j + v^{2}/_{EK}(EC/EK) k + v^{2}/_{CK}(KC/KC) \right. j + 0 \\ & \left. k + (a_g)_{KE}(KC/KE) \right. j + (a_g)_{KE}(CE/KE) k \right] \end{split}$$

 $F_{(C)} = \frac{1}{4}m\{[0i+0j] + 4[v^2/(r_{planet} + alt)(EC/(r_{planet} + alt)k] + [0i+0j] + 0k + [0i+0j] + [4(a_g)CE/(r_{planet} + alt)k]\}$ $F_{(C)} = m_1[v^2/(r_{planet} + alt) + a_g](EC/(r_{planet} + alt)k = m_{particle stream}a_{(z)} = VERTICAL THRUST$ $a_{(z)} = [v^{2}/(r_{planet} + alt) + a_{g}] k \times sin(\theta)$

where $\sin(\theta) = \text{opp/hyp} = [(r_{\text{doughnut center}})/(r_{\text{point particle}}) \approx \sin(90^{\circ}) \approx 1$

 $a_{(z)}\!\approx\! v^{\;2}/r+a_g$ Therefore;

Figure 7

Inventor

Theoretic example, Thrust by Gyroscopic Lift with a Particle Accelerator:

50 milligrams of ionized particles, continuously traveling along a circular path at 60% velocity of light should provide 2.54. x 10⁵ Newtons of upward thrust.

m measured in Kg $F_{particles} = m_{particles} X a_z$,

 $F = m \times [v^2/(r_{planet} + alt) + g]$ $F = 50 \times 10^6 \times [(2.998 \times 10^8 \times .60)^2/(6.371 \times 10^6) - 9.821] = 253,938 \text{ N}$

Figure 8

Theoretic example, Vertical Acceleration of Ship with Particle Accelerators

$$\begin{split} F_{particles} + F_{gravity} &= F_{ship} \; , \\ F_{particles} + F_{gravity} &= m_{ship} \; x \; \; a_{ship} \end{split}$$

 $F_{particles} + (m_{ship} x g) = m_{ship} x a_{ship}$

 $[F_{\text{particles}} + (m_{\text{ship}} \times g)] / m_{\text{ship}} = a_{\text{ship}}$ $[(2 \times 2.54 \times 10^5) + (40 \times 10^3 \times -9.821)] / (40 \times 10^3) = 2.879 \text{ m/s}^2$

 $2.879 \text{ m/s}^2 / 9.821 \text{ m/s}^2 = .2931 \text{ g/s}$

Figure 9

INVENTOR

Like & Fost

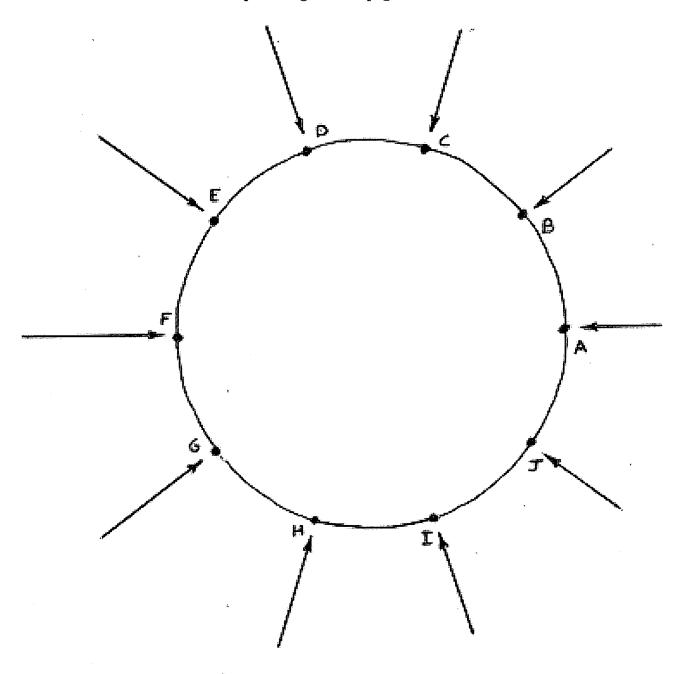


Figure 10

Inventor John Poster

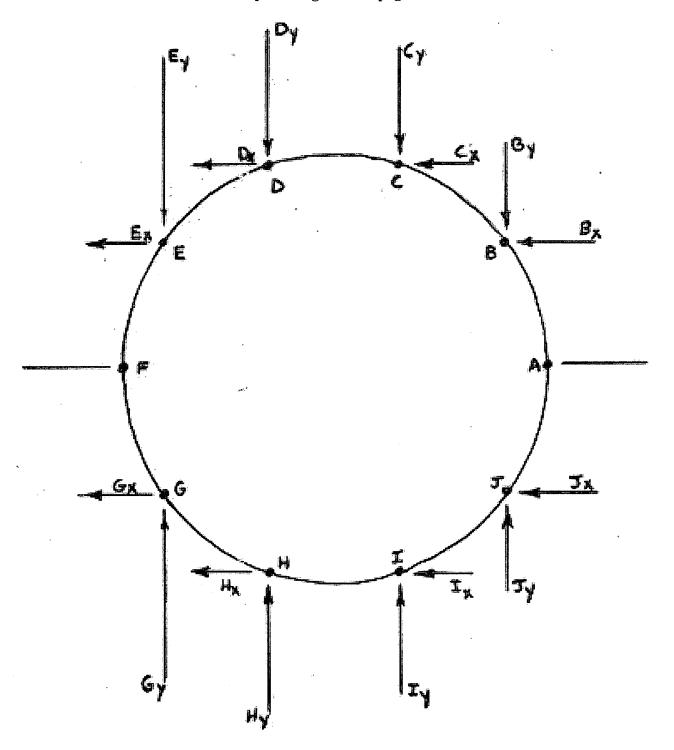


Figure 11

INVENTOR Lohn P Foster

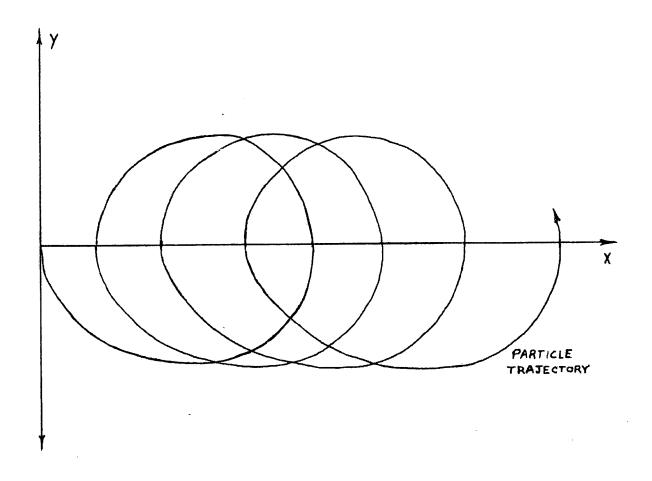


Figure 12

INVENTOR Lohn P Foster